

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG FILE THE LOSS FILE **X** WATER SANDS SECTION INSPECTED SUB REPORT and

890907 Chg of opri on mugh of 8-1-89

DATE FILED 11-10-86

LAND FEE &amp; PATENTED

STATE LEASE NO

PUBLIC LEASE NO

U-20894

INDIAN

DRILLING APPROVED 11-14-86 (Exception Location)

SPUDDED IN

COMPLETED

PUMP PRODUCING

INITIAL PRODUCTION

GRAVITY API

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION

DATE ABANDONED

FIELD

WILDCAT

UNIT

COUNTY

SAN JUAN

WELL NO

HORSE CANYON FEDERAL 13-24

API #43-037-31285

LOCATION

575' FSL

FT FROM RAIL LINE

1760' FWL

SE SW

14 - 14 SEC

13

TWF

RGE

SEC

OPERATOR

TWF

RGE

SEC

OPERATOR

GASF Corp

38S

23E

13

WINTERSHALL CORPORATION

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☒

2. NAME OF OPERATOR

Wintershall Corporation

(303) 694-0988

3. ADDRESS OF OPERATOR

5251 DTC Pkwy., Ste. 500, Englewood, Co. 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements \*)

At surface

575' FSL & 1760' FWL (SESW)

At proposed prod zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

12 air miles SE of Blanding, Utah

10. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

(Also to nearest drilg unit line, if any)

575'

16. NO. OF ACRES IN LEASE

640

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1,265'

19. PROPOSED DEPTH  
6,265'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

21. ELEVATIONS (Show whether DF, RT, GR, etc)

5,363' ungraded

22. APPROX. DATE WORK WILL START\*

Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

1. Well is located on federal surface and subsurface.

2. BOP, casing, and cementing programs are on PAGES 2-4.

DIVISION OF  
OIL, GAS & MINING

3 Request an exception due to topography (avoiding a wash). Well is an exception to the quarter-quarter line, NOT to the lease line. Proposed unorthodox location will reduce environmental impact compared to closest orthodox location. William C. Armour, Jr.; Chorney Oil Company; and Texaco Producing Inc. are the lessees of record and have designated Wintershall Corporation as the operator of all lands within a minimum 575' radius of the proposed well. See PAGE 17 for lease description. See PAGE 21 for diagram illustrating options per UDOGM Rule 302.1(c).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any

SIGNED R. D. [Signature] (303) 565-3773  
DATE 11/12/86 TITLE Consultant

APPROVED BY [Signature] THE STATE

(This space for Federal or State office use)

PERMIT NO 43-037-31285

APPROVAL DATE

OF UTAH DIVISION OF  
OIL, GAS, AND MINING

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY

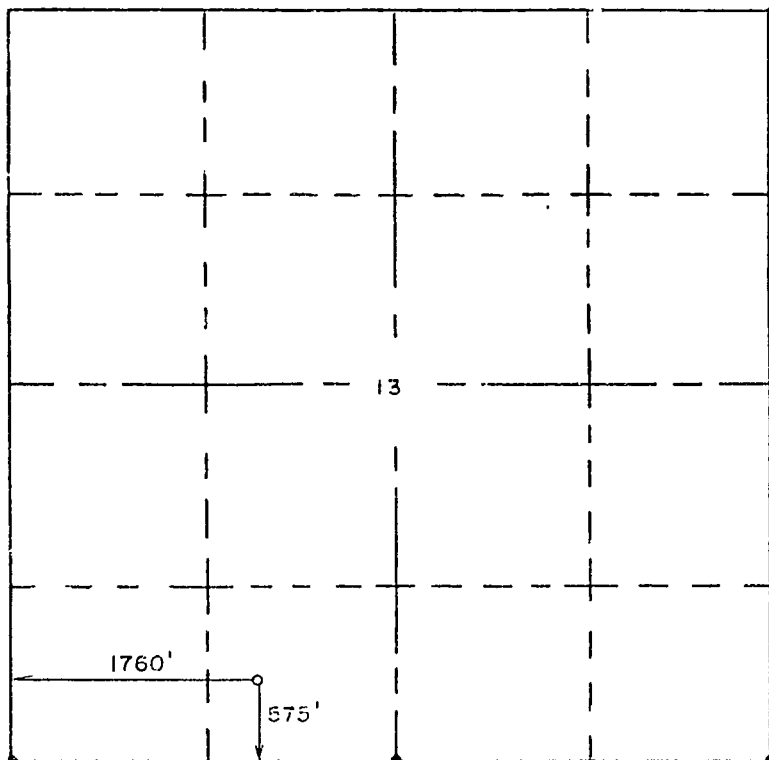
TITLE

DATE 11-14-86  
BY [Signature] DATE [Signature]

CC: Howell (3), Lowry (3), HDO (3), SJRA (1), UDOGM (2)

\*See Instructions On Reverse Side

WELL LOCATION PLAT



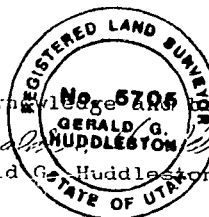
WELL LOCATION DESCRIPTION

WINTERSHALL OIL & GAS  
13-24 Horse Canyon  
575' FSL & 1760' FWL  
Section 13, T.38 S., R 23 E, SLM  
San Juan County, Utah  
5363' grd. elevation  
Reference: N60°03'E, 275', 5377'

The above plat is true and correct to my knowledge and belief.

11-04-'86

Gerald G. Huddleston, LS





BASF Group

November 5, 1986

Bureau of Land Management  
Branch of Fluids  
P.O. Box 970  
Moab, Utah 84532

Dear Sirs,

Brain Wood with Permits West, Inc. is employed by Wintershall Corporation and as such has the authority to sign APD's as agent for Wintershall Corporation.

Sincerely,

A handwritten signature in dark ink, reading "David P. Howell". The signature is written in a cursive style with a large, stylized "D" and "H".

David P. Howell  
Operations Manager  
Rocky Mountain Division

CPH/cjr  
Encl.losure

SUPERVISOR, OIL AND GAS OPERATIONS:

**DESIGNATION OF OPERATOR**

The undersigned is, on the records of the Bureau of Land Management, holder of oil and gas lease

DISTRICT LAND OFFICE:

SERIAL NO.: U-20894

and hereby designates

NAME: Wintershall Corporation

ADDRESS: 5251 DTC Parkway, Suite 500, Englewood, CO. 80111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 38 South, Range 23 EastSection 13: S $\frac{1}{4}$ Section 14: S $\frac{1}{4}$ 

San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

  
.....  
(Signature of lessee)

William C. Armour, Jr.

3422 So. Energy Lane, Casper, Wy. 82604

.....  
(Address)

10/28/86

.....  
(Date)

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:  
SERIAL No.: UTAH 20894

and hereby designates

WINTERSHALL CORPORATION  
NAME: 5251 DTC Parkway, Ste 500  
ADDRESS: Englewood, CO 80111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 38 South, Range 23 East  
Section 13: S $\frac{1}{2}$   
Section 14: S $\frac{1}{2}$

San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or Orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.


ATTEST:

CHORNEY OIL COMPANY

  
J. C. Beam

October 28, 1986

(Date)

  
Vice Pres. (Signature of lessee)  
555 17th Street, Ste 1000  
Denver, CO 80202-3910

(Address)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

STATE OFFICE      Salt Lake City, Utah  
SERIAL NO.:        U-20894

and hereby designates

NAME.              Wintershall Corporation  
ADDRESS.          5251 DTC Parkway, Suite 500  
                     Englewood, Colorado 80111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160) with respect to (describe acreage to which this designation is applicable):

Township 38 South, Range 23 East, S.L.M.  
Section 13; SW¼

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the authorized officer of any change in the designated operator.

TEXACO PRODUCING INC.

By: 

(Signature of lessee)

D.P. Loughry

Attorney-in-Fact

P. O. Box 2100, Denver, CO 80201

(Address)

November 3, 1986

(Date)

Wintershall Corporation  
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All lease and/or unit operations will be conducted in full compliance with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas Order #1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. Wintershall will furnish a copy of these conditions to its field representative to assure compliance.

### 8 Point Drilling Program

1. The estimated tops of important geologic markers are.

<u>Formation Name</u>	<u>Depth</u>	<u>Subsea</u>
Dakota	000'	+5363' (ungraded)
Morrison	115'	+5248'
Bluff	745'	+4618'
Entrada	997'	+4366'
Navajo	1175'	+4188'
Chinle	2095'	+3268'
DeChelly Cutler	2815'	+2548'
Hermosa	4713'	+ 650'
Upper Ismay	5939'	- 576'
Lower Ismay	6057'	- 694'
Desert Creek	6157'	- 794'
Akai (T.D.)	6265'	- 902'

2. The estimated depths at which water, oil, gas, or other mineral bearing zones are expected to be encountered are

#### Possible Water Zone

Navajo: 1175'

#### Possible Oil Zones

Upper Ismay: 5939'

Lower Ismay: 6057'

Desert Creek: 6157'



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Surface casing will be set 50' into the Chinle. Water bearing zones will be protected with weighted mud. All fresh water encountered during drilling will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. BOP systems will be consistent with API RP 53. A diagram of a typical 3000 psi BOP (actual model will not be known until bid is let) is on Page 3.

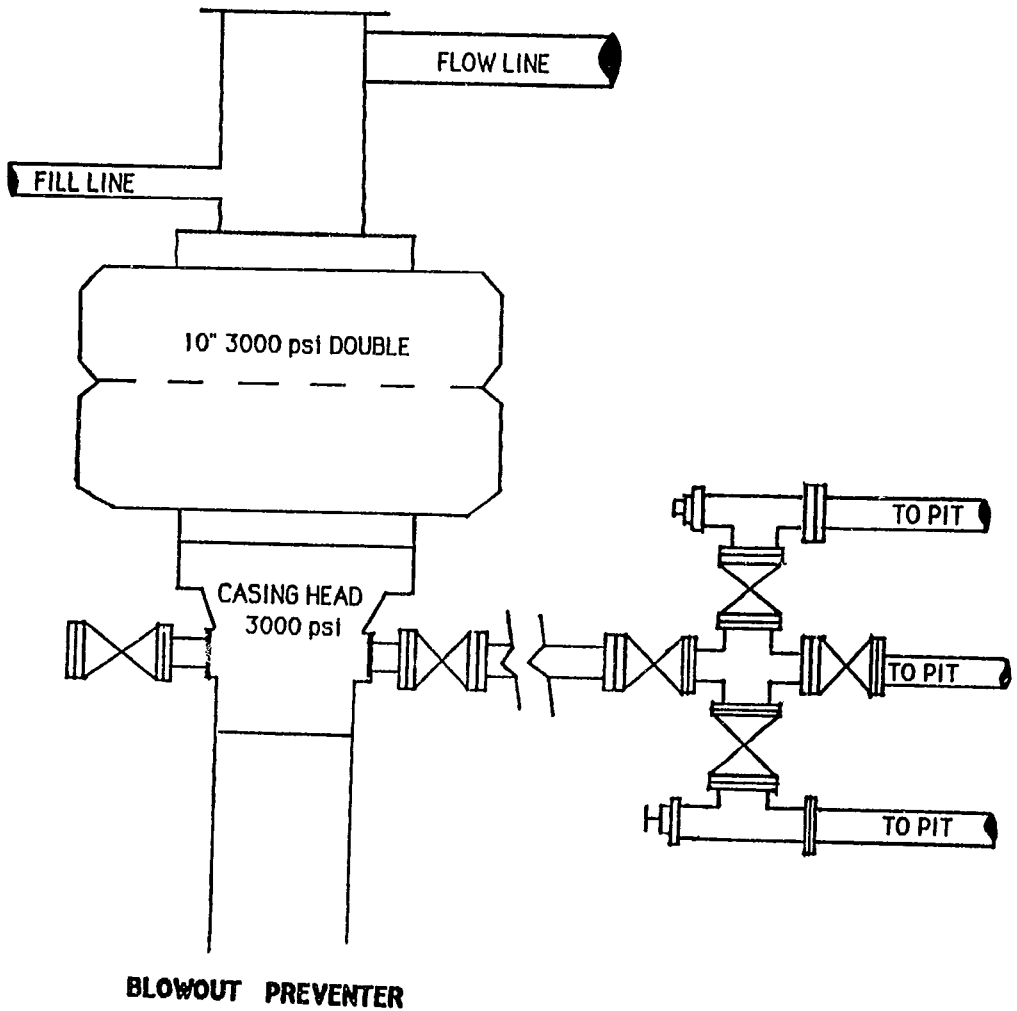
Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. BOP controls will be installed before drilling the surface casing plug, and will stay in use until the well is completed or abandoned. Preventers will be pressure tested before drilling casing cement plugs. All BOP mechanical and pressure tests will be recorded on the drillers log. Call Mike Wade at the Resource Area (801) 587-2141 or home (801) 587-2026 one day before pressure testing. If Mike is gone, call Greg Noble at the District Office (801) 259-6111 or home (801) 259-8811.

BOPs will be inspected and operated at least daily to assure good mechanical working order. This inspection will be recorded on the daily drilling report.

4. The following may be inspected. Call Mike Wade at the Resource Area (801) 587-2141 or home (801) 587-2026 one day before the event, or on a dry hole as soon as possible. If unable to reach Mike Wade, call Greg Noble at the District Office (801) 259-6111 or home (801) 259-8811.
- The cementing and testing of surface casing
  - If a dry hole, setting and testing of surface casing shoe plug
  - If a depleted producer, setting and testing of plugs across the producing horizon and, if applicable, the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.

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The San Juan Resource Area [(801) 587-2141] will be notified 1 day before running casing strings and cement. The proposed casing and cementing program is:

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Setting Depth</u>
17-1/2"	13-3/8"	54*	J-55	ST&C	New	0' - 80'
12-1/4"	9-5/8"	36*	J-55	ST&C	New	0'-2145'
7-7/8"	5-1/2"	15.5*	J-55	ST&C	New	0'-6265' (TD)

Conductor Pipe: Cement to surface (0' to 80') with 125 sx

Surface Casing Cement to surface (0' to 2145') with:

Lead System  
1,000 sx "Lite"

Tail System  
100 sx Class B

Production Casing Cement to surface (0' to 6265') with:  
150 sx low water loss Class B

5. The proposed mud program is:

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>F/L</u>	<u>pH</u>
0'-3500'	Gel-Water	8.7-8.8	30	N/C	N/C
3500'-5000'	Gel w/ Chem	9.0-9.5	40	12-15	10
5000'-6265' (TD)	Gel w/ Chem	9.5-10.5	40-45	8-10	10+

6. Drill stem tests will be run in the Upper and Lower Ismay, our primary objectives, if good shows are found. No cores are anticipated. The following logs will be run:

DIL/SFL, Gamma Ray/SP, BHC/Sonic: Base of Surface Casing to TD  
Density Neutron & Dipmeter: Zones of Interest from 4500' to TD

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Whether the well is completed as a dry hole or producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well, or after completion of operations being performed, *per* 43 CFR 3164 Two copies of all logs, core descriptions & analyses, well test data, geologic summaries, sample descriptions, and all other data obtained during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. (If requested, sample cuttings, fluids, and/or gases will be submitted to the District Manager.)

7. The maximum expected bottom hole pressure is 3500 psi.  
No abnormal pressures, temperatures, or hydrogen sulfide are expected
8. The anticipated spud date is November 15, 1986. It is expected it will take 20 days to drill the well and 10 days to complete the well.

Wintershall, or its dirt contractor, will contact the Resource Area before beginning dirt work.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be phoned to the Resource Area, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5), reporting the spud date and time, will be sent to the District Manager within 24 hours after spudding. If the spud is on a weekend or holiday, the Sundry will be sent on the following regular work day.

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Starting with the month in which operations begin, and continuing each month until the well is physically plugged and abandoned, a "Monthly Report of Operations" (Form 3160-6) will be sent to the District Manager

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual events will be promptly reported to the Resource Area *per* NTL-3A.

A Sundry Notice will be filed for prior approval of the District Manager if a replacement rig is planned for completion. All conditions of this approved plan apply to all operations of the replacement rig. In emergencies, verbal approval can be given by the District Manager.

If the well is successfully completed for production, then the District Manager will be notified. Written notification will be sent not later than 5 business days following the date on which the well is placed on production. The Resource Area will schedule a first production conference within 15 days after receipt of the first production notice.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Manager. This preliminary approval will not exceed 30 days or 50 MMcf of gas. Approval to vent/flare beyond this initial period will require the District Manager's approval *per* NTL-4A.

No well abandonment operations will begin without the prior approval of the District Manager. With a newly drilled dry hole, failure, or emergency, oral approval will be obtained from the District Manager. A Sundry Notice will be sent to the District Manager within 30 days following completion of the well for abandonment. The Sundry will note where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the reclamation required by the approved APD or abandonment notice has been completed to the satisfaction of the Area Manager.

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Once plugged, a regulation dry hole marker will be erected. The following information will be beaded on with a welding torch. Wintershall Oil and Gas Corp., Horse Canyon 13-24 Federal, SESW 13-38S-23E, U-20894

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### 13 Point Surface Use Plan

#### 1. EXISTING ROADS (See PAGES 16 & 17)

From the Post Office in Montezuma Creek, Utah, go 14.1 mi. north on Utah 262

Then turn right and go east 0.1 mi. on a paved county road.

Then turn left and go north 4.4 mi. on a dirt county road.

Then turn right and go east 0.4 mi. on an unreclaimed seismic trail.

All access is state, county, or on-lease road. The roads will be maintained to a standard at least equal to their present condition. No improvements or new disturbances are planned. An Encroachment Permit has been submitted to the San Juan County Road Dept.

#### 2. ROADS TO BE BUILT OR UPGRADED (See PAGES 16 & 17)

From the 0.4 mi. mark on the seismic trail, a new road 0.3 mi. in length will descend north and east to the well. The seismic trail (if not previously upgraded for the Horse Canyon 13-14 Well) and new road will both be flat bladed with a 20' wide running surface (30' maximum disturbed width). Maximum grade will be 8%. There will be no turnouts, fence crossings, culverts, or major cuts or fills. An archaeological site along the new road will be scrupulously avoided.

Surface disturbance and vehicle travel will be limited to the approved location and access. Any additional area needed will be approved in advance by the Area Manager. If access is used during wet winter weather, road surfacing may be required.

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The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling the drill rig. If this deadline cannot be met, the Resource Area will be notified so temporary drainage control can be installed Class III Road Standards control drainage through the use of topography, ditch turnouts, dips, outsloping, crowning, low water crossings, and culverts. Specific measures will be determined at a field inspection.

### **3. EXISTING WELLS** (See PAGE 17)

There are no existing water, injection, or disposal wells within a one mile radius. Meridian Oil is currently completing the only producer, Havasu Federal 41-24 @ 1050 FNL & 500 FEL 24-38S-23E, within a mile. It is 3430' away. (In addition, Wintershall has applied to drill the Horse Canyon 13-14 Federal @ 460 FSL & 500 FWL 13-38S-23E.)

### **4. PROPOSED PRODUCTION FACILITIES**

The type and layout of the production facilities are not known now. A Sundry Notice will be submitted for approval before they are installed.

All permanent (on site for 6 or more months) surface facilities will be painted a flat, nonreflective, neutral color to match the trees or soil. Painting will be completed within 6 months of installation. Parts required to comply with OSHA colors will be excluded.

If a tank battery is built, it will be surrounded by a dike of sufficient capacity to contain 150% of the storage capacity of the battery. All loading lines will be placed inside the dike.

All site security guidelines in 43 CFR 3162.7 will be obeyed. All product



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lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease must have the prior written approval from the District Manager.

Any gas meter run will be within 500' of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500' downstream of the meter run and any production facilities. Meter runs will be housed and/or fenced

The oil and gas measurement facilities will be installed on the well pad. Meters will be calibrated in place before delivery begins. Meter accuracy tests will be conducted monthly for the first 3 months on new meters, and at least quarterly thereafter. The Resource Area will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be sent to the Resource Area. All meters will conform with the API standards for liquid hydrocarbons and AGA standards for natural gas measurement.

##### **5. WATER SUPPLY (See PAGE 16)**

Water will be trucked from an artesian well on BLM administered land in NENW Sec 27, T. 40 S, R 23 E. BLM has given Hay Hot Oil, Inc. permission to truck water from this well. An Application to Appropriate Water (09-1419 [A60809]) has been approved by the State of Utah Div. of Water Rights.

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#### 6. CONSTRUCTION MATERIALS

Pad construction materials are native *in situ* soils on lease. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

#### 7. WASTE DISPOSAL

The reserve pit will be lined with minimum 6 mil plastic. More than half of the capacity will be in cut. It will be fenced on 3 sides with woven wire topped with barbed wire. The 4th side will be fenced once the rig moves off. The fence will be kept in good repair while the pit is drying.

All trash will be placed in a portable trash cage. When full, it will be hauled to an approved landfill in Colorado. The road and pad will be kept litter free.

Human waste will be disposed of in 20' deep ratholes or chemical toilets. The ratholes will be immediately filled when the trailers are removed.

Produced water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 90 day period an NTL-2B application will be submitted for the District Manager's approval of a permanent disposal method and site.

#### 8. ANCILLARY FACILITIES

There will be no formal camp, though 2 camper trailers may on site for the company man and tool pusher.

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#### **9. WELL SITE LAYOUT**

See PAGES 18-20 for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, burn pit, access road onto the pad, parking, living facilities, soil stockpile, and rig orientation.

The top 3" of soil material will be removed from the location and stockpiled on the southwest side. Topsoil along the access will be reserved in place.

#### **10. RECLAMATION**

Immediately upon completion of drilling, all trash and debris will be collected from the pad and surrounding area and placed in the trash cage.

Wintershall's dirt contractor will call the Resource Area 48 hours before starting reclamation that involves earth moving equipment, and upon completion of reclamation The reserve pit must be completely dry before it is backfilled.

All disturbed areas will be recontoured to blend as nearly as possible with the natural topography This includes removing all berms and refilling all cuts.

The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12" deep with the contour

Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover

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*8 lb/ac Crested wheatgrass (Agropyron desertorum)*  
*1 lb/ac Desert bitterbrush (Purshia glandulosa)*  
*1 lb/ac Fourwing saltbush (Atriplex canescens)*  
*1 lb/ac Yellow sweetclover*

After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed area. The access will be blocked to prevent vehicle access and water bars built as follows

<u>Grade</u>	<u>Spacing</u>
2%	Every 200'
2-4%	Every 100'
4-5%	Every 75'
5%+	Every 50'

The reserve pit and that part of the pad not needed for production will be reclaimed as previously described. Enough topsoil will be kept to reclaim the remainder of the pad at a future date. The remaining topsoil stockpile will be seeded in place using the prescribed seed mix.

#### 11. SURFACE OWNER

The surface owner of the pad and the road requiring construction is the U.S. Government

#### 12. OTHER INFORMATION

The dirt contractor will be provided with an approved copy of the surface use plan. The dirt contractor will fence the northwest side of the pad to avoid inadvertent damage to a cultural resource.

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There will be no change from the proposed drilling and/or workover plan without prior approval from the District Manager. A Sundry Notice will be filed for approval for all changes of plans and other operations *per* 43 CFR 3164.

Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified *per* 43 CFR 3162.2.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the Resource Area will be called. All people who are in the area will be informed by Wintershall that they are subject to prosecution for disturbing archaeological sites or picking up artifacts, including arrowheads.

This permit will be valid for one year from the date of approval. After the permit expires, a new application will be filed for approval of any future operations.

The District Office's mailing address is P.O. Box 970, Moab, Utah 84532. The phone number is (801) 259-6111. Ask for Greg Noble.

The Resource Area's mailing address is P.O. Box 7, Monticello, Utah 84535. The phone number is (801) 587-2141. Ask for Rich McClure for surface problems. Ask for Mike Wade for subsurface problems.

The nearest hospital is a 50 minute drive to Monticello, Utah. It is 3 blocks northwest of the intersection of US 666 and US 191. Phone number is (801) 587-2116. The nearest medically equipped helicopter is in Grand Junction, Colorado, at St. Mary's Hospital. Call (303) 244-2550.

Wintershall Corporation  
Horse Canyon 13-24 Federal  
575' FSL & 1760' FWL  
Sec. 13, T. 38 S., R. 23 E.  
San Juan County, Utah

PAGE 15

### 13. REPRESENTATION AND CERTIFICATION

For questions concerning the APD, please contact:

Brian Wood  
Permits West, Inc.  
37 Verano Loop  
Santa Fe, NM 87505  
(505) 984-8120

The field representatives for Wintershall Corporation are:

John Lowry, Area Superintendent  
Wintershall Corporation  
P O Box 23  
Towaoc, Co. 81334  
(303) 565-7773  
[Home: (303) 565-4880]

Ralph Sloane, Jr.  
Consultant  
797 Road 3000  
Aztec, NM 87410  
(505) 327-9171

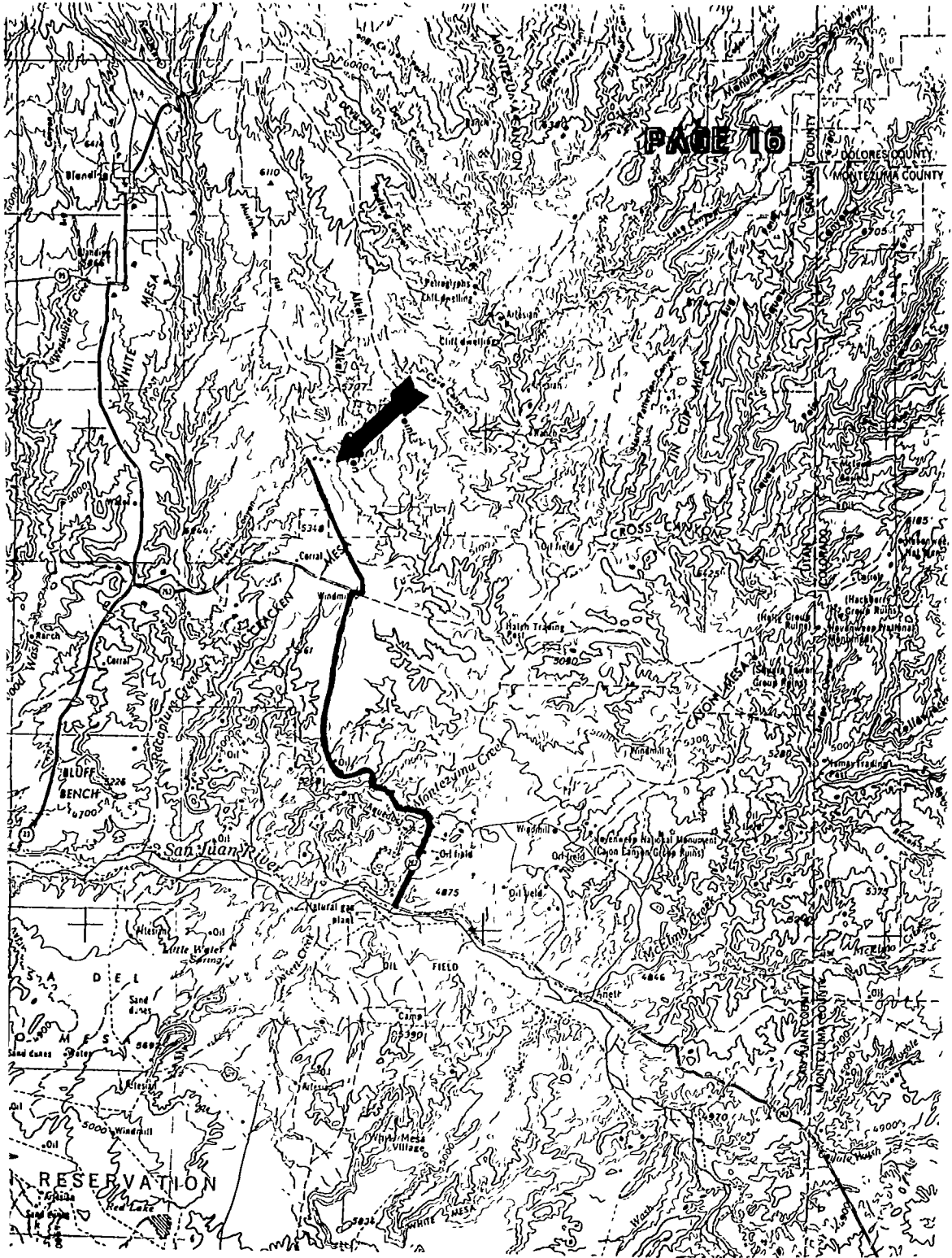
### CERTIFICATION

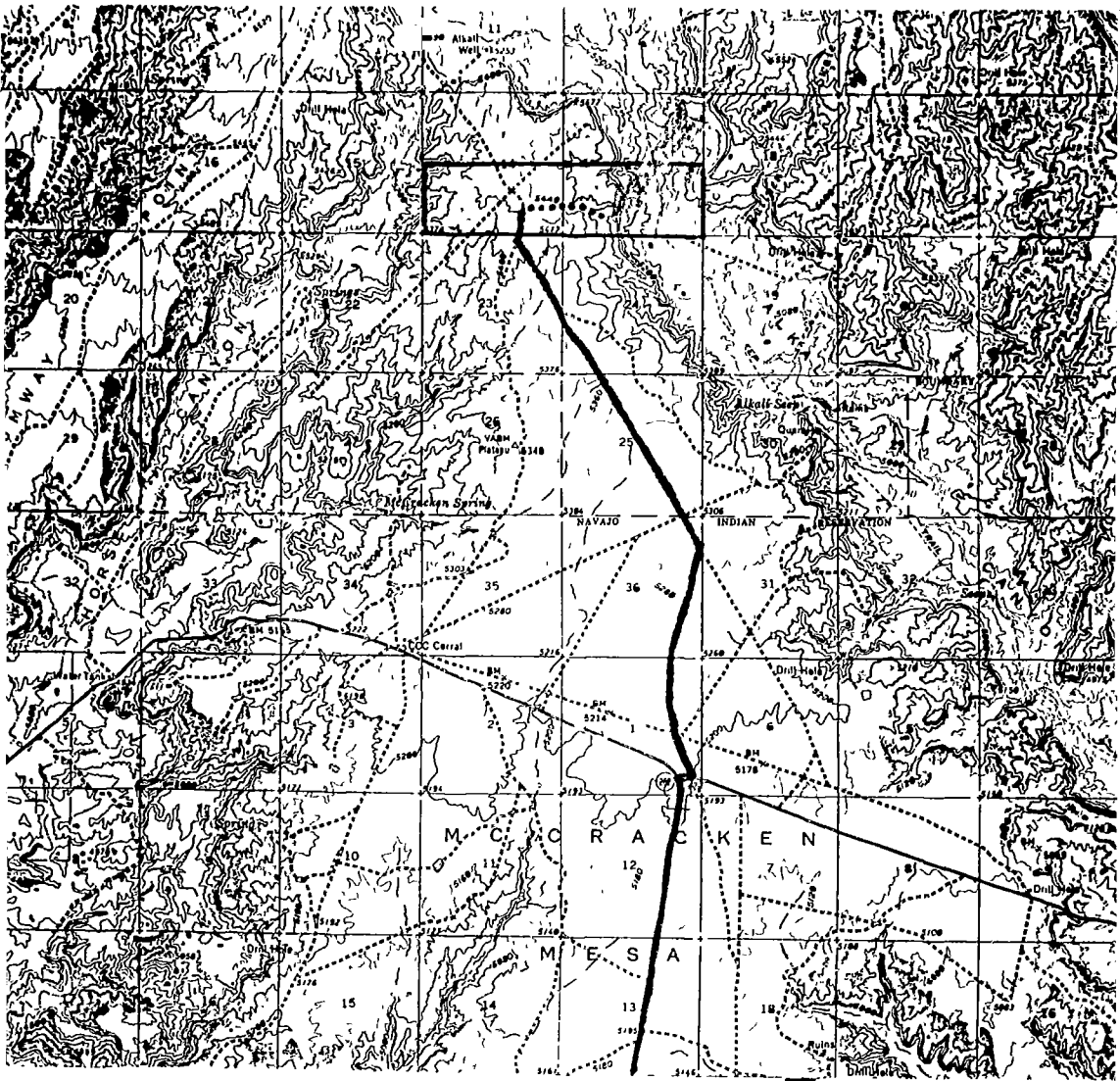
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Wintershall Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

*Brian Wood*

November 6, 1986

PAGE 16





Wintershall Corporation's Horse Canyon 13-24 Federal Well  
575' FSL & 1760' FWL 13-38S-23E, San Juan County, Utah

Proposed New Access - - - - -

Existing Access ———

Lease U-20894

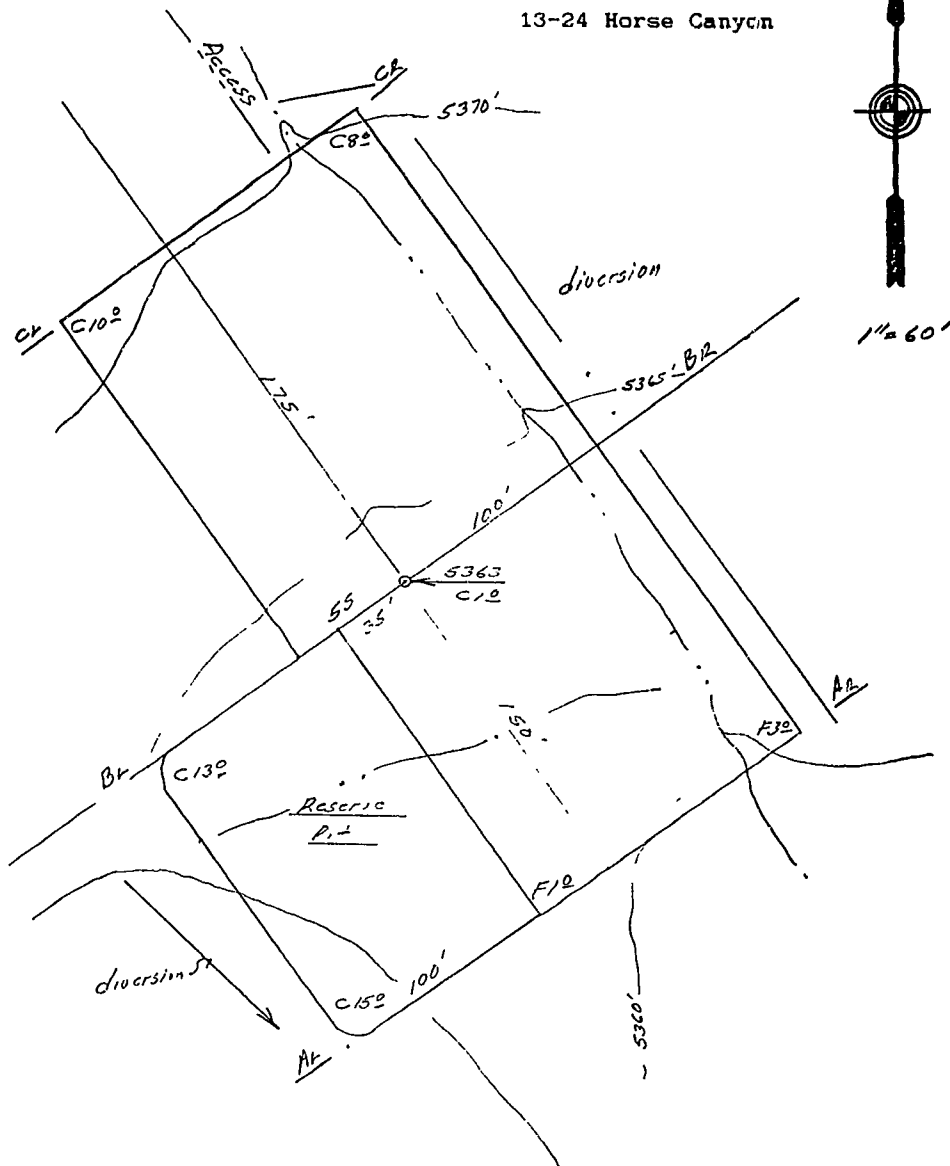


Meridian Oil's Havasu Federal 41-24 Well



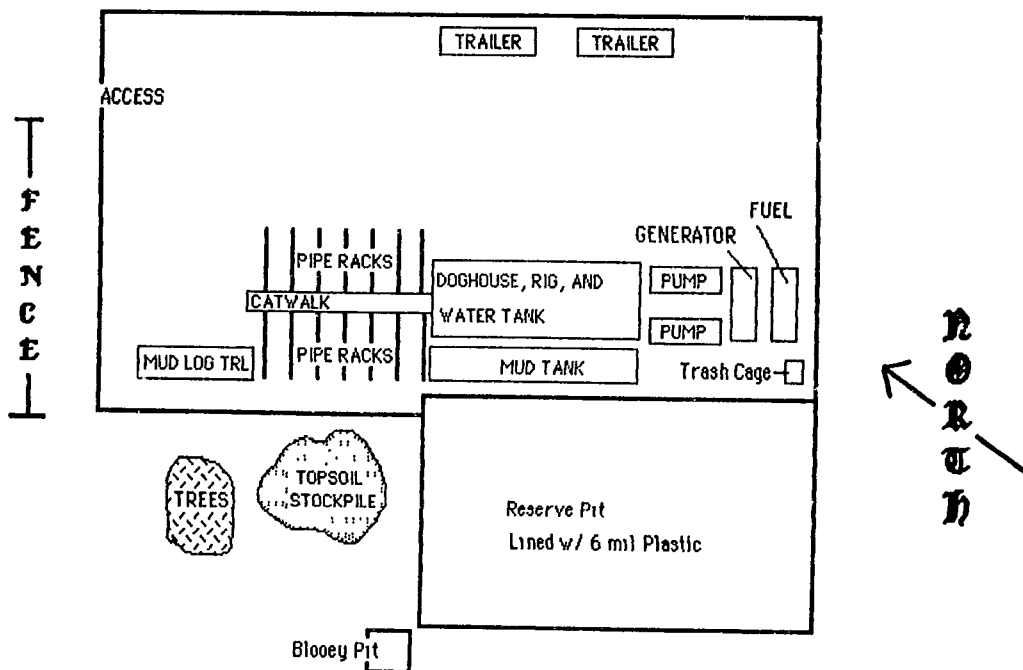
WELL PAD PLAN VIEW

13-24 Horse Canyon



Wintershall Corporation  
Horse Canyon 13-24 Federal  
575' FSL & 1760' FWL  
Sec. 13, T. 38 S., R. 23 E.  
San Juan County, Utah


PAGE 19



**NOTE: Fence Edge of Pad Which Is Southwest of Road**

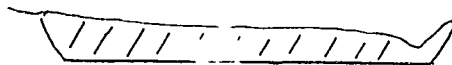
# WELL PAD CROSS-SECTION

PAGE 20

Cut /////  
Fill 

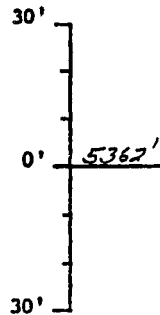
Scales: 1" = 60' H.  
1" = 30' V.

13-24 Horse Canyon



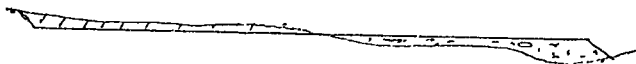
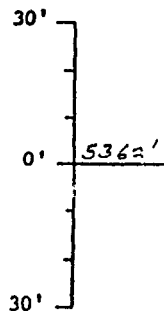
C<sub>L</sub>

C<sub>R</sub>



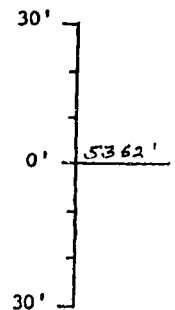
B<sub>L</sub>

B<sub>R</sub>



A<sub>L</sub>

A<sub>R</sub>



FOR Wintershall Corporation  
LOCATION 575' FSL & 1760' FWL 13-38S-23E  
SUBJECT Horse Canyon 13-24 Federal

JOB OR AUTH. NO. \_\_\_\_\_  
PAGE 21  
DATE \_\_\_\_\_  
BY \_\_\_\_\_

<p>Southwest-Southwest Quarter of Sec. 13</p> <div data-bbox="308 440 465 591" style="border: 1px solid black; padding: 10px; text-align: center;">1. &amp; 3.</div>	<p>Southeast-Southwest Quarter of Sec. 13</p> <div data-bbox="781 440 931 591" style="border: 1px solid black; padding: 10px; text-align: center;">1. &amp; 3.</div>
<p>Northwest-Northwest Quarter of Sec. 24</p> <div data-bbox="302 898 462 1050" style="border: 1px solid black; padding: 10px; text-align: center;">1 &amp; 3</div>	<p>Northeast-Northwest Quarter of Sec. 24</p> <div data-bbox="777 903 925 1055" style="border: 1px solid black; padding: 10px; text-align: center;">1 &amp; 3.</div>

1. 400' x 400' drilling window complying with Rule 302
2. Location at which applicant requests permission to drill:
3. 400' x 400' drilling window at which wells have been (none have) or could be drilled directly or diagonally offsetting the proposed location
4. Wintershall Corporation is the designated operator of all oil and gas leases within a 460' radius of the proposed location

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☒

2. NAME OF OPERATOR

Wintershall Corporation

(303) 694-0988

3. ADDRESS OF OPERATOR

5251 DTC Pkwy., Ste. 500, Englewood, Co. 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)

At surface

575' FSL & 1760' FWL (SESW)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

12 air miles SE of Blanding, Utah

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest dr/g unit line, if any)

575'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1,265'

19. PROPOSED DEPTH

6,265'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,363' ungraded

22. APPROX. DATE WORK WILL START\*

Upon Approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

1. Well is located on federal surface and subsurface.
2. BOP, casing, and cementing programs are on PAGES 2-4.
3. Request an exception due to topography (avoiding a wash). Well is an exception to the quarter-quarter line, NOT to the lease line. Proposed unorthodox location will reduce environmental impact compared to closest orthodox location. William C. Armour, Jr.; Chorney Oil Company; and Texaco Producing Inc. are the lessees of record and have designated Wintershall Corporation as the operator of all lands within a minimum 575' radius of the proposed well. See PAGE 17 for lease description. See PAGE 21 for diagram illustrating options per UDOGM Rule 302.1(c).

NOV 10 1986

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*R. E. Dwyer*

TITLE

Consultant

DATE

Nov. 6, 1986

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

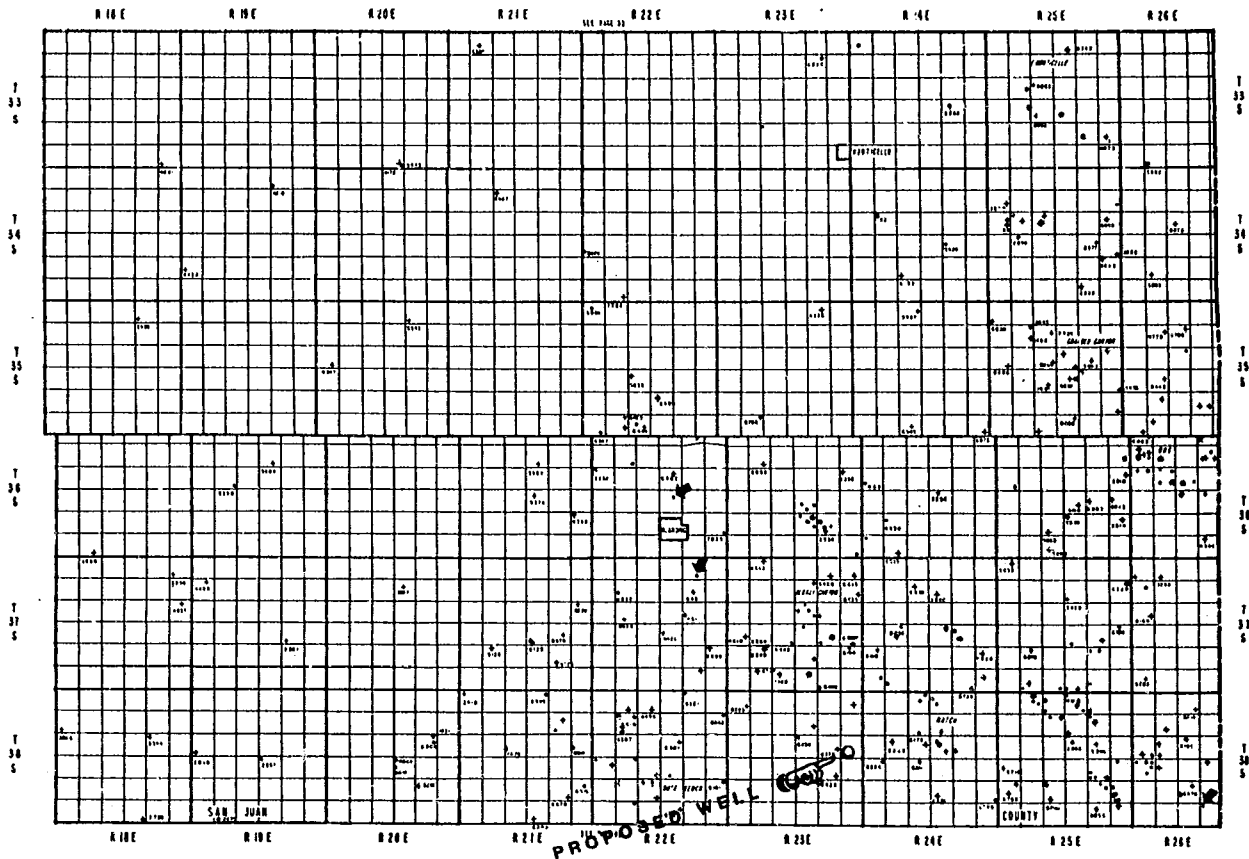
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

cc: Howell (3), Lowry (3), MDO (3), SJRA (1), UDOGM (2)

\*See Instructions On Reverse Side



111804

OPERATOR Wentworth Corp. DATE 11-13-86  
 WELL NAME Horse Canyon Fed. 13-24  
 SEC SE SW 13 T 38S R 27E COUNTY San Juan

43-037-31285  
 API NUMBER

Fed  
 TYPE OF LEASE

## CHECK OFF



PLAT



BOND

NEAREST  
WEL

LEASE



FIELD

POTASH OR  
OIL SHALE

## PROCESSING COMMENTS

No other well within 920'Need water permitException loc requested.

## APPROVAL LETTER

SPACING



203

UNIT



302



CAUSE NO &amp; DATE



302 1

## STIPULATIONS

1-- water

# STATE ACTIONS

14 01 88

Mail to: A-95 Coordinator, State Clearinghouse, 124 State Capitol, SLC, Utah 84114, 533-4971

## 1. Applicant

DIVISION OF OIL, GAS AND MINING  
3 TRIAD CENTER, SUITE 350  
SALT LAKE CITY, UTAH 84180-1203

## 2. State Application Identifier Number

## 3. Approximate date project will start

UPON APPROVAL

## 4. Areawide clearinghouse(s) receiving copy of STATE ACTION: (to be sent out by applicant)

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

5. Type of action: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition  
☐ Land Sale ☐ Land Exchange ☐ Other: \_\_\_\_\_

6. Title of proposed action: APPLICATION FOR PERMIT TO DRILL

## 7. Description:

Wintershall Corporation intends to drill a wildcat well on federal lease number U-20894 in San Juan County, Utah. The Division of Oil, Gas and Mining has reviewed the application and is prepared to issue state approval to drill. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S. Bureau of Land Management is the primary review agency in this case and must also issue approval to drill before operations can commence.

## 8. Land affected (Site location map required) (Indicate county)

SE/4, SW/4, Sec.13, T.38S, R.23E, San Juan County, Utah

43-037-31285

## 9. Has the city/county been contacted regarding necessary zoning & building permits? Unknown

## 10. Possible significant impacts likely to occur:

No significant impacts are likely to occur.

## 11. Name and phone number of district representative from your agency near project site, if applicable. Mr. William Hutchinson 1-259-8151

## 12. For further information, contact:

Phone: John Baza, 538-45340

## 13. Signature and title of authorized official

Date: 11-14-86, Petroleum Engineer





STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 14, 1986

Wintershall Corporation  
5251 OGC Parkway, Suite 500  
Englewood, Colorado 80111

Gentlemen:

Re: Horse Canyon Federal 13-24 - SE SW Sec. 13, T. 38S, R. 23E  
575' FSL, 1760' FML - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302.1, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

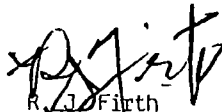
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

Page 2  
Wintershall Corporation  
Horse Canyon Federal 13-24  
November 14, 1986

5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31285.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

120105

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☒

2. NAME OF OPERATOR

Wintershall Corporation

(303) 694-0988

3. ADDRESS OF OPERATOR

5251 DTC Pkwy., Ste. 500, Englewood, Co. 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

575' FSL & 1760' FWL (SESW)

At proposed prod zone

Same

43.037.31285

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

12 air miles SE of Blanding, Utah

15. DISTANCE FROM PROPOSED

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT

(Also to nearest drill unit line, if any)

575'

18. DISTANCE FROM PROPOSED LOCATION

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT

1,265'

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

6,265'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc)

5,363' ungraded

22. APPROX DATE WORK WILL START

Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING - PTH	QUANTITY OF CEMENT

NOV 21 1986

DIVISION OF  
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24

SIGNED

*Brian D. [Signature]*

TITLE

Consultant

DATE

Nov. 6, 1986

(This space for Federal or State office use)

PERMIT NO

APPROVAL DATE

Ernest V. Rhea

Acting

DISTRICT MANAGER

NOV 18 1986

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

FLARING OR VENTING OF  
GAS IS SUBJECT OF NTL 4-A  
DATED 1/1/80

cc: Howell (3), Lowry (3), MDO (3), SJRA (1), UDGM (2)

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Wintershall Corporation  
Well No. Horse Canyon 13-24 Federal  
Sec. 13, T. 38 S., R. 23 E.  
San Juan County, Utah  
Lease U-20894

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

A. DRILLING PROGRAM

The well will not be spudded after November 28, 1986 unless production has already been established at the Horse Canyon Federal 13-14 Well.

If this well is spudded before the Federal 13-14 well, it must be completed by December 19, 1986.

This APD will be rescinded if neither well is spudded by November 28, 1986.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLE  
COPIES (Instructions  
on reverse side)  
**120205**

Form approved  
Budget Bureau No. 1001-0115  
Expires August 31, 1985  
LEASE DESIGNATION AND SERIAL NO.

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir  
Use APPLICATION FOR PERMIT for such proposals)

1 OIL WELL <input checked="" type="checkbox"/> NATURAL GAS WELL <input type="checkbox"/> TYPE	7 UNIT AGREEMENT NAME <b>N/A</b>
2 NAME OF OPERATOR <b>Wintershall Corporation</b>	8 FARM OR LEASE NAME <b>N/A</b>
3 ADDRESS OF OPERATOR <b>5251 DTC Parkway, Suite 500, Englewood, Co. 80111</b>	9 WELL NO. <b>13-24 Federal</b>
4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements* See also space 17 below) At surface	10 FIELD AND POOL, OR WILDCAT <b>Wildcat</b>
5 Surface: 575' FSL & 1760' FWL Bottom: Same	11 SEC., T., S., R., OR BLM AND SURVEY OR AREA <b>13-38S-23E SLBM</b>
14 PERMIT NO. <b>43-037-31285</b>	12 COUNTY OR PARISH <b>San Juan</b>
15 COMPLETION (SPEL, S, D, F, H, R, or etc.) <b>5,363' ungraded</b>	13 STATE <b>Utah</b>

16 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF	
TEST WATER SHUT OFF <input type="checkbox"/>	FILL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETS <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANT <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other*) <input type="checkbox"/>			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17 DESCRIBE PROPOSED OR COMPLETED OPERATION. (Include side and bottom details and give pertinent data including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to work.)

**Will change water source as described on PAGE 10 of APD. New source is NESE Sec. 13, T. 39 S., R. 24 E. Land is private and owner has given permission. Our use approved by Div. of Water Rights Nov. 21, 1986.**

**RECEIVED**  
DEC 01 1986

DIVISION OF  
OIL, GAS & MINING

18 I hereby certify that the foregoing is true and correct

SIGNED *Brian S. Wolf* TITLE Consultant DATE 11-24-86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY

cc: BLM (3), Clausen (1), Howell (1), UDOGM (2)

\*See Instructions on Reverse Side

# FILING FOR WATER IN THE STATE OF UTAH

DEC 23 1986

DIVISION OF  
OIL, GAS & MINING

## APPLICATION TO APPROPRIATE WATER

Rec. by CT  
Fee Paid \$ 15.00  
Platted 71342  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

WATER USER CLAIM NO. 09 - 1486

APPLICATION NO. T62164

1. PRIORITY OF RIGHT: November 7, 1986

FILING DATE: November 7, 1986

2. OWNER INFORMATION

Name: Wintershall Corp. c/o Permits West Inc.

Address: 37 Verano Loop, Santa Fe, NM 87505

The land is not owned by the applicant(s), see explanatory.

3. QUANTITY OF WATER: 8.0 acre feet (Ac. Ft.)

4. SOURCE: Underground water well DRAINAGE: San Juan River

POINT(S) OF DIVERSION:

COUNTY: San Juan

(1) S. 3915 feet, W. 1055 feet, from the NE Corner of Section 13,

Township 39 S, Range 24 E, SLB&M

Description of Diverting Works: 8 inch diameter well 566 ft.

COMMON DESCRIPTION: Hatch Trading Post

5. NATURE AND PERIOD OF USE

Oil Exploration From November 15 to November 14.

6. PURPOSE AND EXTENT OF USE

Oil Exploration: Drilling and dust control

7. PLACE OF USE

The water is used in all or parts of each of the following legal subdivisions.

North East Quarter				North West Quarter				South West Quarter				South East Quarter			
TOWN	RANGE	SEC	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
38 S	23 E	13									X	X			

All locations in Salt Lake Base and Meridian

### EXPLANATORY

A maximum of 4.00 acre feet of water will be used for each of 2 wells for a total of 8.00 acre feet.

The land is owned by Sher on Hatch. Mr. Hatch has agreed to allow Wintershall to haul water from his 8-inch diameter, 566 feet deep well.

Will supplement prior rights contained in application 09-252 (A30955).

The two wells to be drilled are:

Horse Canyon #13-14 Federal (N. 460 ft. & E. 500 ft. from SW Cor. Sec. 13, T38S, R23E, SLB&M, SW4SW4).

Horse Canyon #13-24 Federal (N. 575 ft. & E. 1760 ft. from SW Cor. Sec. 13, T38S, R23E, SLB&M, SE4SW4).

Approved 11-21-86 expires 11-21-87

SEP 20 1989

September 20, 1989

Utah, Natural Resource  
Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Reference Change of Operating Name  
Utah Account No N9555

Gentlemen

As evidenced by the enclosed copy of Certificate of Merger, Attachment A, effective August 1, 1989, Wintershall Corporation was merged into BASF Corporation. Wells formerly operated in the name of Wintershall Corporation will now be operated in the name of BASF Corporation. Also enclosed as Attachment B is a listing of wells involved in the merger.

Because this transaction is a merger rather than change in ownership, it is requested that the Utah account number assigned to Wintershall Corporation be transferred to BASF Corporation. Your favorable consideration of this request would be greatly appreciated.

If you have any questions or if additional information is required, please contact me at (713) 850-2509.

Yours very truly,

*Charmaine Stone*

Charmaine Stone  
Regulatory & Production Analyst Supervisor

encls

State of Delaware

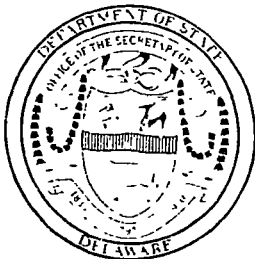
4843



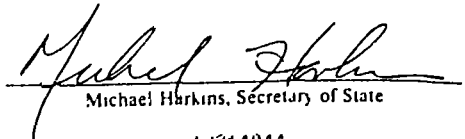
## Office of Secretary of State

I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF  
DELAWARE DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT  
COPY OF THE CERTIFICATE OF MERGER OF DELAWARE CORPORATIONS OF  
PASE CORPORATION FILED IN THIS OFFICE ON THE SECOND DAY OF  
AUGUST, A D 1989, AT 10 O'CLOCK A M

: : : : : : : :



B9925F017

  
Michael Harkins, Secretary of State

AUTHENTICATION: 2314014

DATE: 08/24/1989



9214061

SEP 25 1989

0736 647

CERTIFICATE OF MERGER

MERGING

WINTERSHALL CORPORATION

INTO

BASF CORPORATION

FILED

AUG 2 1989

*John P. [Signature]*  
[Stamp]

Pursuant to Section 251 of the General Corporation Law of the State of Delaware

BASF CORPORATION, a Delaware corporation, hereby certifies as follows:

FIRST: The constituent corporations are WINTERSHALL CORPORATION and BASF CORPORATION. Each corporation is incorporated in the State of Delaware.

SECOND: An Agreement of Merger dated as of July 31, 1989, has been approved, adopted, certified, executed, and acknowledged by each of the constituent corporations in accordance with Section 251(c) of the General Corporation Law of the State of Delaware.

THIRD: The name of the surviving corporation is BASF CORPORATION.

FOURTH: The Certificate of Incorporation of the surviving corporation shall be that of BASF CORPORATION.

FIFTH: The executed Agreement of Merger is on file at the principal place of business of the surviving corporation, which is located at 8 Campus Drive, Parsippany, N. J. 07054.

SIXTH: A copy of the Agreement of Merger will be furnished by the surviving corporation, on request and without cost, to any stockholder of the constituent corporations.

SEVENTH: This Certificate of Merger and the Agreement of Merger shall become effective on August 1, 1989 at 12:01 p.m.

IN WITNESS WHEREOF, BASF CORPORATION, the surviving corporation, has caused this statement to be signed by its officers thereunto duly authorized as of this 31<sup>st</sup> day of July, 1989.

BASF CORPORATION

J. Dieter Stein  
J. Dieter Stein  
President

(S&S.)

ATTEST:

Helmuth Aldinger  
Assistant Secretary -  
Helmuth Aldinger

ATTACHMENT B

BASF CORPORATION

EFFECTIVE AUGUST 1, 1989

SEP 23 1989

STATE	FIELD	WELL NAME	WELL NO.	API NO.
UT	NANCY	NANCY FEDERAL	01-03	430373074100S1
UT	NANCY	NANCY FEDERAL	03-11	430373090200D2
UT	NANCY	NANCY FEDERAL	03-22	430373090100S1
UT	NANCY	NANCY FEDERAL	03-32	430373089800S1
UT	NANCY	NANCY FEDERAL	03-44	430373081700S1
UT	NANCY	NANCY FEDERAL	11-11	430373090300S1
UT	NANCY	NANCY FEDERAL	11-22	430373081400S1
UT	NANCY	FEDERAL	34-32	430373082500S1
UT	Howe	477 13 24		4303731285

FEBRUARY 8, 1994

TO: WELL FILE

FROM: K. M. HEBERTSON

RE: Status, Horse Canyon Federal 13-24 43-037-31285 13-38S-23E

Per telephone conversation with the operator concerning the status of this well, it was determined that the well will not be drilled and the operator has acknowledged that the APD has expired. The operator has been informed that the APD will need to be refiled in order to drill this well at a future date.

As of the above date the APD has been rescinded and the file sent to the LA archives.

KMH